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84-111234/18 DAINIPPON TORYO KK (MATU) 17.09.82-JP-162051 (26.03.84) B41m-05 C09d-11 Aq. ink jet compsn. - contg. water-soluble dye, wetting agent and water soluble copper cpd. other than sulphate	17.09.82 J5 9051-961-A	A(12-W7D) E(5-L38, 35-A) G(2-A4A)	539
C84-047197	Full Patentees: Dainippon Toryo KK; Mitsubishi Elcc. In KK.	Direct Red 277 or 225, C.I. Acid Red 87, 92, 52, 94 or 289 or C.I. Direct Black 51.	
<u>CLAIMED COMPOSITION</u>		<u>PREFERRED WETTING AGENTS</u>	
An aq. jet ink compsn. comprising water, a water-soluble dye, a wetting agent and one or more water-soluble Cu cpds. other than CuSO_4 (0.1-5 wt. %) and opt. a quencher (0.1-5 wt. %), water-soluble solvent, surface tension improver, viscosity improver, antifungal agent and preservative.		The wetting agent is diethylene glycol, triethylene glycol, polyethylene glycol, glycerine, propylene glycol, ethylene glycol monomethyl ether, diethylene glycol monobutyl ether, ethylene glycol monomethyl ether acetate, tripropylene glycol methyl ether or hydroxylalkyl formamide.	
<u>ADVANTAGE</u>		<u>PREFERRED COPPER CPD.</u>	
The compsn. has high printing workability, allowing for a long printing operation without plugging the jet nozzle. It provides images having high light fastness.		The Cu cpd. is CuCl_2 , CuBr_2 , $\text{Cu}(\text{NO}_3)_2$, Cu acetate, cuprous pyridylazonaphthol complex, cuprous ethylene diamine tetra-acetate complex, cuprous amino acrylic resin complex, a reaction product of dl- α -alanine and Cu, a reaction product of Cu and glycine, a reaction product of Cu and lactic acid, or a reaction product of Cu and β -hydroxypropionic acid.	
<u>PREFERRED DYES</u>		<u>PREFERRED QUENCHER</u>	
The water-soluble dye is C.I. Direct Blue 236, 203, 202 199 or 15, C.I. Acid Blue 7 or 9, C.I. Acid Yellow 1, C.I.		The quencher is KI, KBr, KCl, KSCN, CoSO_4 , $\text{Co}_2(\text{SO}_4)_3$, CuSO_4 , FeSO_4 , NiSO_4 or Ni oxalate.	
		<u>PREFERRED SOLVENT</u>	J59051961-A

The water-soluble solvent is dioxane, acetone, diacetone alcohol, 1-3C alkyl alcohol, DMF, DMSO or N-methyl-2-pyrrolidone.

PREFERRED ADDITIONAL MATERIALS

The surface tension controller is a cationic, anionic or amphoteric surfactant.

The viscosity improver is hydroxypropyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose or polyvinyl alcohol.

The antifungal agent or preservative is Na tetrahydroacetate, 1,2-bisisothiazoline-3-one or 6-acetoxy-2,4-dimethyl-, dioxane. (7ppW-59WADwgNo. 0/0).

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